

Weekly Report

2016.11.28-2016.12.04

1.This Week

Security Project

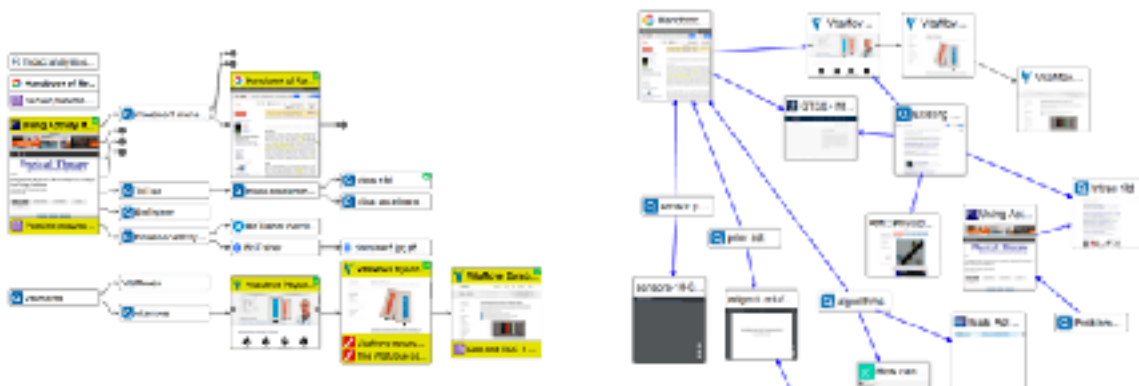
1. Have a discussion with Yao and our group members. Report our work of last week and check if we did it right. Decide what we need to do this week and discuss about how we are going to do it.
2. Do the coding job of our system:
 - check choose logic and revise bugs to make sure all kinds of choosing interactions can cooperate with each other: including mouse left button and right button click, brush, click and brush with shift or ctrl key pressed
 - revise node delete logic and function
3. Still trying to figure out a research topic from our system. Temporarily, I have a rather vague idea of dealing with periodic and regular patterns of suspicious actions in network relationships. This week I'm going to dig into this idea and find if it is valuable enough. In the meantime, I'll still try to find new topics.

Others

1. Finish the course thesis of Data Mining.

Paper Reading

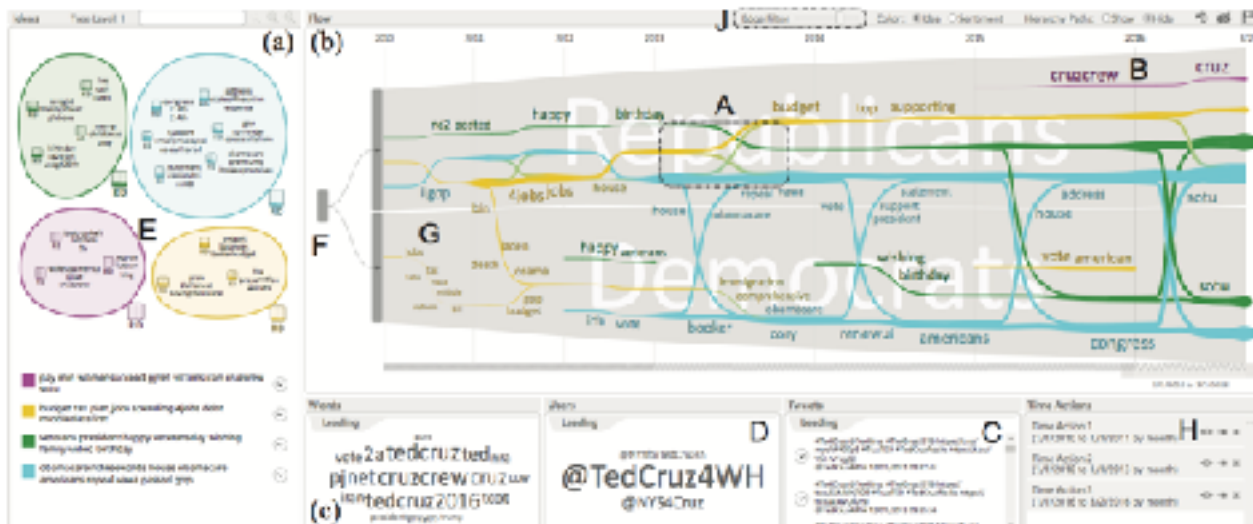
1. SenseMap: Supporting Browser-based Online Sense-making through Analytic Provenance



This paper presents SenseMap to support browser-based online sense-making analysis through analytic provenance. It includes two main views History map (left) and Knowledge map (right). In

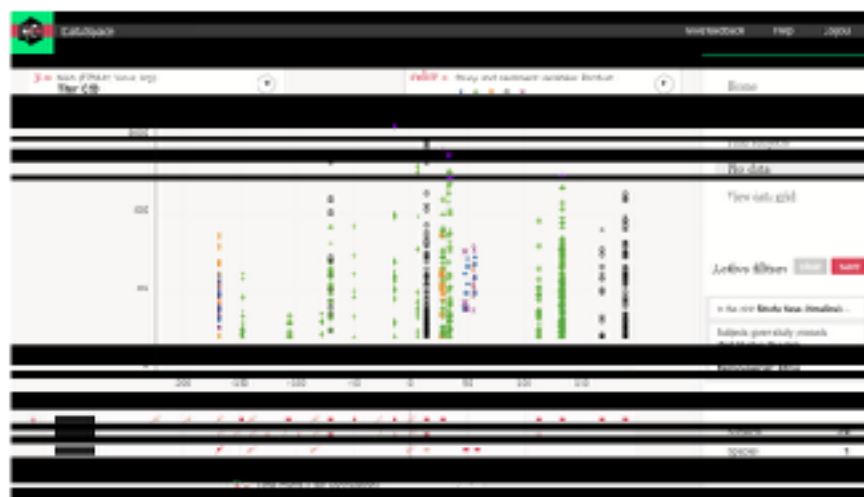
history map view, it automatically captures users' sense-making actions in the browser view and provide an overview of their sense-making processes, preventing users from getting lost in the tasks. In the knowledge map view, users can curate and make senses of the most relevant information to their tasks and communicate their findings with different levels of detail.

2.How Ideas Flow across Multiple Social Groups



This paper presents an interactive visual analytics system for exploring lead-lag relationships within and across multiple social groups on a set of correlated ideas. It follows a rather normal visualization pipeline. At first they summarize several design requirements and decide idea tracking algorithms, and then design this system. The system contains two main panels: (a) idea view, which summarize a large number of ideas and facilitate their exploration at multiple levels of granularity by organizing the ideas into a hierarchy by using the Bayesian Rose Tree model; (b) flow view, which encodes multi-level user groups as a stripe tree and local lead-lag as flow maps

3. The DataSpace for HIV Vaccine Studies



This paper studies a growing resource available to hundreds of investigators for learning about completed studies, assays, and vaccine products. The picture above is the dataspace system: event icons indicate vaccination, follow-up, and challenge (not pictured) events. The alignment has been changed such that zero is the time point of last vaccination. This shows a cross-study pattern of an immune response curve peaking shortly after the last vaccination. Color and shape correspond to the combination of vaccine types received.

However, though the results generated is quite encouraging, it is hard to prove whether it is scientific enough and actually useful. (Maybe the problem of all this kind of work)

To Do

1. Keep up with the security project, including searching for research topics and do coding jobs.
2. Prepare to meet professor Eduard Groeller.
3. Finish the homework of seminar course Computer Vision.